

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/005355

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ G02B6/12, 6/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G02B6/12, 6/42, G02F1/00-1/125, G02F1/29, H01S5/00-5/50

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
JSTPlus (JOIS)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2001-508887 A (Massachusetts Institute of Technology), 03 July, 2001 (03.07.01), Full text & US 6130969 A1 & UA 6101300 A1 & US 2002/118923 A1 & US 6512866 B1 & EP 988569 A & WO 1998/57207 A1 & WO 2003/77023 A1 & CA 2293660 A	1-15
A	Takashi ASANO et al., "2 Jigen Photonic Kessho ni yoru Hacho Gobunha Device -Mennai Hetero Kozo no Teian-," 2002 Nen (Heisei 14 Nen) Shunki Dai 49 Kai Oyo Butsurigaku Kankei Rengo Koenkai Koen Yokoshu, Separate Vol.3, 27 March, 2002 (27.03.02), page 1039	1-15

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
09 June, 2005 (09.06.05)

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28 June, 2005 (28.06.05)

Name and mailing address of the ISA/
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/005355

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Hoshoku SO et al., "Mennai Hetero Photonic Kessho ni yoru Hacho Bungoha Device", 2002 Nen (Heisei 14 Nen) Shuki Dai 63 Kai Extended abstracts; the Japan Society of Applied Physics, Separate Vol.3, 24 September, 2002 (24.09.02), page 916	1-15
A	JP 2002-510400 A (Gorunotto, Ditoma), 02 April, 2002 (02.04.02), Full text & US 6310991 B1 & EP 985159 B & WO 1998/53350 A1 & DE 19720784 A & DE 59801875 D & AU 7529598 A & AT 207622 T & AU 740986 B & NZ 337209 A & CA 2289201 A	1-15
A	JP 2002-268105 A (Lucent Technologies Inc.), 18 September, 2002 (18.09.02), Full text & US 2004/17960 A1 & US 2004/184715 A & CA 2363630 A	1-15
A	JP 6-88915 A (Corning Inc.), 29 March, 1994 (29.03.94), Par. Nos. [0038] to [0039]; Fig. 4A & US 5253319 A1 & US 5612171 A & EP 557713 A1 & AU 661890 B & AU 3304093 A & CA 2084248 A	1-15
P,A	JP 2004-233941 A (Japan Science and Technology Agency), 19 August, 2004 (19.08.04), Full text & WO 2004/53549 A1	1-15
P,A	JP 2004-334190 A (Ricoh Co., Ltd.), 25 November, 2004 (25.11.04), Full text (Family: none)	1-15
P,A	JP 2004-212416 A (Japan Science and Technology Agency), 29 July, 2004 (29.07.04), Full text (Family: none)	1-15